

I claim:

1. A method of preparing supercharged zinc fetuin:

- a. Incubating fetuin in solution with a chelating agent;
- b. Isolating naked fetuin from step (a);
- c. Incubating the naked fetuin in solution with Zinc Acetate; and
- d. Isolating supercharged zinc fetuin from the solution in step (c).

5 2. The method of preparing supercharged zinc fetuin of claim 1, wherein the fetuin is

700 µg in approximately 0.2 ml of solution;

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3. The method of preparing supercharged zinc fetuin of claim 1, wherein the chelating
agent is 0.1 EDTA.

15 4. The method of preparing supercharged zinc fetuin of claim 1, wherein the naked
fetuin in approximately 0.2 ml of solution is incubated with approximately 0.5 ml of 0.5 M Zinc
Acetate for three hours.

20 5. A method of preparing supercharged zinc fetuin:

a. Incubating fetuin with approximately 0.5 ml of approximately 0.1 EDTA for every
700 µg of fetuin in approximately 0.2 ml of solution;

25 b. Adding saline solution to said incubation mixture and concentrating said mixture to
near dryness using a molecular sieve and centrifugal force; repeating said concentration using said
saline solution, molecular sieve and centrifugal force a multiple number of times to obtain a naked
fetuin on the molecule sieve;

c. Incubating the naked fetuin in approximately 0.2 ml of solution with approximately
0.5 ml of approximately 0.5 M Zinc Acetate; and

d. Removing the free Zinc Acetate using the molecular sieve and centrifugal force to obtain supercharged zinc fetuin.

6. A supercharged zinc fetuin prepared using the following steps:

- 5 a. Incubating fetuin in solution with a chelating agent;
- b. Isolating naked fetuin from step (a);
- c. Incubating the naked fetuin in solution with Zinc Acetate; and
- d. Isolating supercharged zinc fetuin from the solution in step (c).

10 7. The supercharged zinc fetuin of claim 6, wherein the fetuin is 700 µg in approximately 0.2 ml of solution;

8. The supercharged zinc fetuin of claim 6, wherein the chelating agent is 0.1 EDTA.

15 9. The supercharged zinc fetuin of claim 6, wherein the naked fetuin in approximately 0.2 ml of solution is incubated with approximately 0.5 ml of 0.5 M Zinc Acetate for three hours.